

Serial No. 10/808,428
Attorney Docket No. 11-238

AMENDMENTS TO THE SPECIFICATION:

Please amend the specification as follows.

Please delete the paragraph from page 9, line 21, through page 10, line 1, of the specification and replace it with the following:

Constant current Ia is supplied from a constant current source 6 to a connected point of the piezoresistance elements G1 and G3 in the bridging circuit. If the diaphragm 105 is stressed, voltage Vp1 at the connected point of the piezoresistance elements ~~G1~~ G2 and G3 becomes higher and, on the other hand, voltage Vp2 at a connected point of the elements G1G2 and G4 becomes lower. A value of the difference Vp1-Vp2 is almost proportional to the stress added to the diaphragm 105.

Please delete the paragraph on page 14, lines 13-23, of the specification and replace it with the following:

The first voltage evaluation circuit 20 is configured to output an accidental ~~sate~~ state signal if the power voltage becomes lower than the lower limit of operation voltage (for example $5 \pm 0.25V$) of the operational amplifier 8 in the output circuit 5. In this embodiment, considering a margin for an accidental error, a voltage to be judged as an accident occurring on the power voltage is set below 4.5 V. This is the lower limit of the predetermined power voltage. In other words, the first voltage evaluation circuit 20 is configured to output the accidental state signal if the power voltage is lowered 10 % from the normal power voltage (5 V), that is, the lower limit of the predetermined power voltage.